

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 043 23484

Approval Date: 10/20/2016
Expiration Date: 04/20/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 17N Rge: 19W County: DEWEY
SPOT LOCATION: NE NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 250 2200

Lease Name: CURRY TRUST Well No: 1-32H Well will be 250 feet from nearest unit or lease boundary.
Operator Name: JMA ENERGY COMPANY LLC Telephone: 4059474322 OTC/OCC Number: 20475 0

JMA ENERGY COMPANY LLC
1021 NW GRAND BLVD
OKLAHOMA CITY, OK 73118-6039

DAVID CURRY
P.O. BOX 1509
NORMAN OK 73070

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 CLEVELAND	9004	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 643138

Location Exception Orders: 655013
643650

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13689

Ground Elevation: 1799

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 330

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 16-31690

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 32 Twp 17N Rge 19W County DEWEY

Spot Location of End Point: W2 SW SE SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1400

Depth of Deviation: 8662

Radius of Turn: 573

Direction: 190

Total Length: 4127

Measured Total Depth: 13689

True Vertical Depth: 9235

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

DEEP SURFACE CASING

10/17/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

10/17/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

LOCATION EXCEPTION - 643650

10/17/2016 - G75 - (I.O.) 32-17N-19W
X643138 CLVD
COMPL. INT. NCT 330' FNL, NCT 330' FSL, NCT 660' FEL
JMA ENERGY CO., L.L.C.
7-31-2015

LOCATION EXCEPTION - 655013

10/17/2016 - G75 - EXTEND 643650 UNTIL 7-31-2017

MEMO

10/17/2016 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - CANADIAN RIVER); PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 643138

10/17/2016 - G75 - (640)(HOR) 32-17N-19W
VAC 427743 CLVD
EXT 633117 CVLD
POE TO BHL NCT 660' FB

This permit does not address the right of entry or settlement of surface damages.
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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

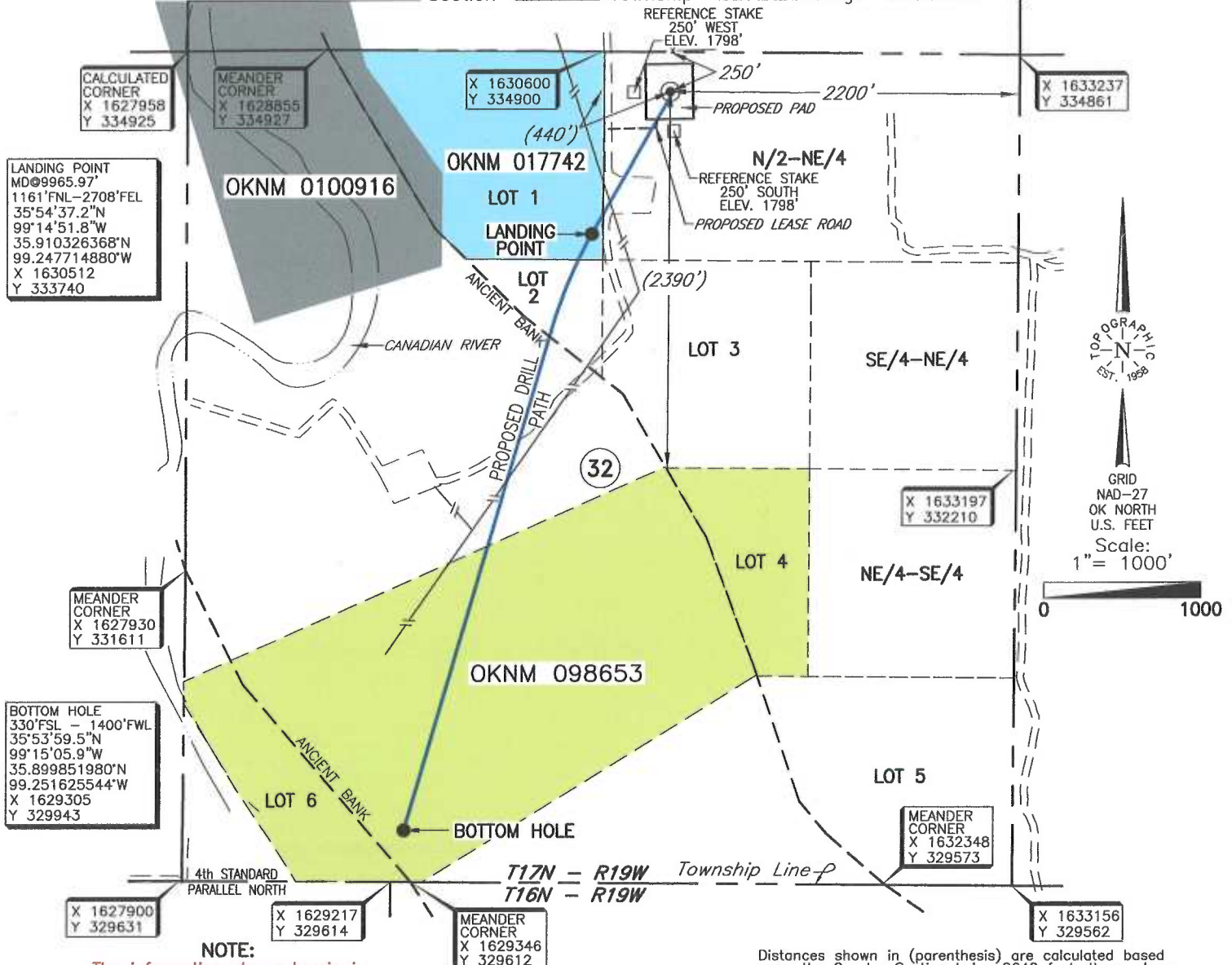
Certificate of Authorization No. 1293 LS

DEWEY

County, Oklahoma

API 043-23484

250'FNL - 2200'FEL Section 32 Township 17N Range 19W I.M.



NOTE:
The information shown herein is for construction purposes ONLY.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: JMA ENERGY CO., LLC

Lease Name: CURRY TRUST

Well No.: 1-32H

ELEVATION:
1799' Gr. at Stake

Topography & Vegetation Location fell in level to sloping grass pasture.

Good Drill Site? Yes Reference Stakes Set 250' West - Elev. 1798' & 250' South - Elev. 1798'

Best Accessibility to Location From North off lease road..

Distance & Direction from Hwy Jct or Town From Camargo, Ok., go 0.75± mile East, then 1.0± mile South, then 0.25± mile East, then 4.0± mile Southeast, then 1.75± mile South, then 1.0± mile West, then 1.0± mile South through Section 29, then to the Northeast corner of Section 32, T17N - R19W.

Revision E Date of Drawing: October 19, 2016

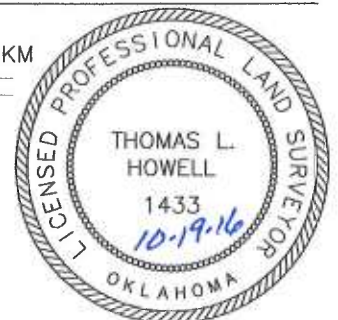
Invoice # 258435 Date Staked: March 22, 2016 RKM

DATUM: NAD-27
LAT: 35°54'46.2"N
LONG: 99°14'45.6"W
LAT: 35.912825936°N
LONG: 99.245993820°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1631033
Y: 334644

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell
Oklahoma Lic. No. 1433



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.